



Environmental Stewardship Program

Cummins Columbus Engine Plant

Success Story

Recycling, Electrical Reduction, and Water Reduction

Background

Cummins Incorporated – Columbus Engine Plant (CEP) has two facilities located in Columbus, IN (Bartholomew County) and employs 1,400 Hoosiers. Cummins CEP has been operating at its 1.4 million square foot facility since 1926. The facility manufactures engine blocks and heads for heavy-duty diesel engines and is building a new line for light-duty diesel engines. The plant employs approximately 800 people and has on-site contractors.

Cummins CEP implemented an environmental management system in 2006 and is among 56 Cummins manufacturing sites worldwide registered as ISO 14001 certified. Cummins CEP has been a member of the Indiana Department of Environmental Management's (IDEM) Environmental Stewardship Program (ESP) since February 4, 2008.

Project Implementation

Cummins CEP replaced 2,178 metal halide and T-12 fluorescent lighting fixtures with 974 more efficient T-5 and T-8 fluorescent lighting fixtures in six of its buildings. Most of the new lights were equipped with occupancy sensors and daylight harvesting capability. Changes were made while working in conjunction with Duke Energy. Fewer new lights were needed because of the increased lighting output (foot candles) of the new lights.

Cummins CEP worked to complete another ESP goal, initiating a second phase lighting replacement project to save an additional two million kWh/yr. In the first quarter of 2010 "Phase II" action, Cummins CEP has replaced 1,424 metal halide fixtures with the more efficient T-5s.

Results

Due to the increased efficiency of the new lighting system, the 2008 "Phase I" action reduced Cummins CEP's electricity consumption by 2,641,017 kilowatt hours per year (kWh/yr), far exceeding the one million kWh/yr goal. Cummins CEP is realizing even greater energy savings because the new lights power off when spaces are unoccupied or dim when sunlight is sufficient to illuminate the area. In aggregate, the site will save 4.9 million kWh/yr, reducing the equivalent of more than 3,500 metric tons of greenhouse gas.

Cost Savings

When both phases were completed, Cummins CEP saved \$300,000 as a result of reduced energy consumption.

Facility Contact

Mr. Mark Slaton, EHS Manager
Cummins Columbus Engine Plant
(812) 447-0772
mark.j.slaton@cummins.com